

1. Alili, L., Kyprianou, A. E.: Some remarks on first passage of Levy processes, the American put and pasting principles, *The Annals of Applied Probability*, 15(3)(2005), 2062-2080.  
<https://doi.org/10.1214/105051605000000377>
2. Applebaum, D.: *Levy Processes and Stochastic Calculus*, 2nd ed., Cambridge University Press, Cambridge, UK (2009).  
<https://doi.org/10.1017/CBO9780511809781>
3. Bachelier, L.: The Theory of Speculation, *Ann. Sci. Ec. Norm. Super., Serie 3*, 17(1900), 21-89 (Engl. translation by David R. May, 2011).  
<https://doi.org/10.24033/asens.476>
4. Barndorff-Nielsen, O. E.: Superposition of Ornstein-Uhlenbeck Type Processes, *Theory of Probability & Its Applications*, 45 (2001), 175-194.  
<https://doi.org/10.1137/S0040585X97978166>
5. Barndorff-Nielsen, O. E., Jensen, J. L., Sorensen, M.: Some stationary processes in discrete and continuous time, *Advances in Applied Probability*, 30(1998), 989-1007.  
<https://doi.org/10.1239/aap/1035228204>
6. Barndorff-Nielsen, O. E., Shephard, N.: Non-Gaussian Ornstein-Uhlenbeck-based models and some of their uses in financial economics, *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, 63 (2001), 167-241.  
<https://doi.org/10.1111/1467-9868.00282>
7. Barndorff-Nielsen, O. E., Shephard, N.: Modelling by Levy Processes for Financial Econometrics, In *Levy Processes: Theory and Applications* (eds O. E. Barndorff-Nielsen, T. Mikosch & S. Resnick), (2001), 283-318, Birkhauser.  
[https://doi.org/10.1007/978-1-4612-0197-7\\_13](https://doi.org/10.1007/978-1-4612-0197-7_13)
8. Bayraktar, E., Miller, C. W.: Distribution constrained optimal stopping, *Mathematical Finance*, 29(1)(2019), 368-406.  
<https://doi.org/10.1111/mafi.12171>
9. Bertoin, J.: *Levy Processes*, Cambridge University Press, Cambridge, UK (1996).
10. Borodin, A. N., Salminen, P.: *Handbook of Brownian Motion: Facts and Formulae (Probability and Its Applications)*, Birkhauser; First Edition(1996).  
<https://doi.org/10.1007/978-3-0348-7652-0>
11. Boyarchenko, S. I., Levendorski, S. Z.: i , Option pricing for truncated Levy processes. *International Journal of Theoretical and Applied Finance*, 3(3)(2000), 549-552.  
<https://doi.org/10.1142/S0219024900000541>
12. Boyarchenko, S. I., Levendorski, S. Z.: i , Non-Gaussian Merton-Black-Scholes Theory, volume 9 of *Adv. Ser. Stat. Sci. Appl. Probab.* World Scientific Publishing Co., River Edge, NJ, 2002(2002).  
<https://doi.org/10.1142/4955>

13. Carr, P., Geman, H., Madan, D. B., Yor, M.: Self-decomposability and option pricing, *Mathematical Finance*, 17 (1)(2007) , 31-57.  
<https://doi.org/10.1111/j.1467-9965.2007.00293.x>
14. DeBlassie, Dante R.: The First Exit Time of a Two-Dimensional Symmetric Stable Process from a Wedge, *Ann. Probab.*, 18 (3)(1990), 1034-1070.  
<https://doi.org/10.1214/aop/1176990735>
15. Domine, M.: First passage time distribution of a Wiener process with drift concerning two elastic barriers, *Journal of Applied Probability*, 33 (1)(1996), 164-175.  
<https://doi.org/10.2307/3215274>
16. Habtemicael, S., SenGupta, I.: Ornstein-Uhlenbeck processes for geophysical data analysis, *Physica A: Statistical Mechanics and its Applications*, 399(2014), 147-156.  
<https://doi.org/10.1016/j.physa.2013.12.050>
17. Habtemicael, S., SenGupta, I.: Pricing variance and volatility swaps for Barndorff-Nielsen and Shephard process driven financial markets, *International Journal of Financial Engineering*, 03 (04)(2016), 1650027 (35 pages).  
<https://doi.org/10.1142/S2424786316500274>
18. Habtemicael, S., SenGupta, I.: Pricing covariance swaps for Barndorff-Nielsen and Shephard process driven financial markets, *Annals of Financial Economics*, 11(2016), 1650012 (32 pages).  
<https://doi.org/10.1142/S2010495216500123>
19. Hieber, P., Scherer, M.: A note on first-passage times of continuously time-changed Brownian motion, *Statistics & probability Letters*, 82(1)(2012) , 165-172.  
<https://doi.org/10.1016/j.spl.2011.09.018>
20. Imkeller, P., Pavlyukevich, I.: First exit times of SDEs driven by stable Levy processes, *Stochastic Processes and their Applications*, 116(4)(2006), 611-642.  
<https://doi.org/10.1016/j.spa.2005.11.006>
21. Issaka, A., SenGupta, I.: Analysis of variance based instruments for Ornstein-Uhlenbeck type models: swap and price index, *Annals of Finance*, 13(4)(2017), 401-434.  
<https://doi.org/10.1007/s10436-017-0302-3>
22. Janssen, J., Skiadas, C.H.: Dynamic modelling of life-table data, *Appl Stochastic Models Data Anal*, 11(1)(1995), 35-49.  
<https://doi.org/10.1002/asm.3150110106>
23. Kou, S. G., Wang, H.: First passage times of a jump diffusion process, *Advances in Applied Probability*, 35(2)(2003), 504-531.  
<https://doi.org/10.1239/aap/1051201658>
24. Kumar, A., Vellaisamy, P.: Inverse tempered stable subordinators, *Statistics & Probability Letters*, 103 (2015), 134-141.  
<https://doi.org/10.1016/j.spl.2015.04.010>

25. Li, L.: First Passage Times of Diffusion Processes and Their Applications to Finance, Ph.D. thesis (2019), [http://etheses.lse.ac.uk/3884/1/Li\\_\\_first-passage-times-of-diffusion.pdf](http://etheses.lse.ac.uk/3884/1/Li__first-passage-times-of-diffusion.pdf)
26. Lifshits, M., Shi, Z.: The first exit time of Brownian motion from a parabolic domain, *Bernoulli*, 8 (6)(2002) , 745-765.
27. Linetsky, V.: Computing hitting time densities for CIR and OU diffusions: applications to mean-reverting models, *Journal of Computational Finance*, 7(4)(2004), 1-22.  
<https://doi.org/10.21314/JCF.2004.120>
28. Martin, R. J., Kearney, M. J., Craster, R. V.: Long- and short-time asymptotics of the first-passage time of the Ornstein Uhlenbeck and other mean-reverting processes, *Journal of Physics A: Mathematical and Theoretical*, 52 (13)(2019), <https://doi.org/10.1088/1751-8121/ab0836>  
<https://doi.org/10.1088/1751-8121/ab0836>
29. Meerschaert, M. M., Scheffler, H.: Triangular array limits for continuous time random walks, *Stochastic Process. Appl.*, 118 (2008), 1606-1633.  
<https://doi.org/10.1016/j.spa.2007.10.005>
30. Nicolato, E., Venardos, E.: Option Pricing in Stochastic Volatility Models of the Ornstein-Uhlenbeck type, *Mathematical Finance*, 13(2003), 445-466.  
<https://doi.org/10.1111/1467-9965.t01-1-00175>
31. Paroissin, C., Rabehasaina, L.: First and Last Passage Times of Spectrally Positive Levy Processes with Application to Reliability, *Methodol Comput Appl Probab*, 17(2015), 351-372.  
<https://doi.org/10.1007/s11009-013-9360-9>
32. Patel, R., Carron, A., Bullo, F.: The Hitting Time of Multiple Random Walks, *SIAM Journal on Matrix Analysis and Applications*, 37(3)(2016) , 933-954.  
<https://doi.org/10.1137/15M1010737>
33. Roberts, G. E., Kaufman, H.: *Table of Laplace Transforms*, W.B. Saunders, First Edition (1966).
34. Roberts, M., SenGupta, I.: Infinitesimal generators for two-dimensional Levy process-driven hypothesis testing, *Annals of Finance*, 16 (1)(2020), 121-139.  
<https://doi.org/10.1007/s10436-019-00355-y>
35. Roberts, M., SenGupta, I.: Sequential hypothesis testing in machine learning, and crude oil price jump size detection, To appear in *Applied Mathematical Finance*, Accepted on December, 2020 (2021) . <https://doi.org/10.1080/1350486X.2020.1859943>  
<https://doi.org/10.1080/1350486X.2020.1859943>
36. Sato, K-I.: *Lévy Processes and Infinitely Divisible Distributions*, Cambridge University Press (1999).
37. SenGupta, I.: Option Pricing with Transaction Costs and Stochastic Interest Rate, *Applied Mathematical Finance*, 21 (2014), 399-416.  
<https://doi.org/10.1080/1350486X.2014.881263>

38. SenGupta, I.: Generalized BN-S stochastic volatility model for option pricing, International Journal of Theoretical and Applied Finance, 19 (02)(2016), 1650014 (23 pages).  
<https://doi.org/10.1142/S021902491650014X>
39. SenGupta, I., Nganje, W., Hanson, E.: Re-estimations of Barndorff-Nielsen and Shephard model: an analysis of crude oil price with machine learning, Annals of Data Science, 8(1)(2021), 39-55.  
<https://doi.org/10.1007/s40745-020-00256-2>
40. SenGupta, I., Wilson, W., Nganje, W.: Barndorff-Nielsen and Shephard model: oil hedging with variance swap and option, Mathematics and Financial Economics, 13(2)(2019), 209-226.  
<https://doi.org/10.1007/s11579-018-0225-4>
41. Shoshi, H., SenGupta, I.: Hedging and machine learning driven crude oil data analysis using a refined Barndorff-Nielsen and Shephard model, To appear in International Journal of Financial Engineering, Accepted on February, 2021, (2021) <https://arxiv.org/abs/2004.14862>.
42. Skiadas, C.H., Skiadas, C.: The First Exit Time Stochastic Theory Applied to Estimate the Life-Time of a Complicated System, Methodol Comput Appl Probab. (2019),  
<https://doi.org/10.1007/s11009-019-09699-4>  
<https://doi.org/10.1007/s11009-019-09699-4>
43. Valenti, D., Spagnolo, B., Bonanno, G.: Hitting time distributions in financial markets, Physica A: Statistical Mechanics and its Applications, 382(1) (2007), 311-320.  
<https://doi.org/10.1016/j.physa.2007.03.044>
44. Veillette, M., Taqqu, M. S.: Using differential equations to obtain joint moments of first passage times of increasing Levy processes, Statist. Probab. Lett., 80 (2010), 697-705.  
<https://doi.org/10.1016/j.spl.2010.01.002>
45. Veillette, M., Taqqu, M.S.: Numerical computation of first-passage times of increasing Levy Processes, Methodol. Comput. Appl. Probab., 12 (2010), 695-729.  
<https://doi.org/10.1007/s11009-009-9158-y>
46. Vellaisamy, P., Kumar, A.: First-exit times of an inverse Gaussian process, Stochastics, 90 (1)(2018), 29-48.  
<https://doi.org/10.1080/17442508.2017.1311897>
47. Wilson, W., Nganje, W., Gebresilasie, S., SenGupta, I.: Barndorff-Nielsen and Shephard model for hedging energy with quantity risk, High Frequency, 2 (2019),(3-4), 202-214.  
<https://doi.org/10.1002/hf2.10049>
48. Wolfe, S. J.: On a continuous analogue of the stochastic difference equation  $\rho X_{n+1} + B_n$ , Stochastic Processes and their Applications, 12 (1982), 301-312.  
[https://doi.org/10.1016/0304-4149\(82\)90050-3](https://doi.org/10.1016/0304-4149(82)90050-3)
49. Xu, G., Wang, X.: On the Transition Density and First Hitting Time Distributions of the Doubly Skewed CIR Process, Methodology and Computing in Applied Probability (2020),

<https://doi.org/10.1007/s11009-020-09775-0>.  
<https://doi.org/10.1007/s11009-020-09775-0>